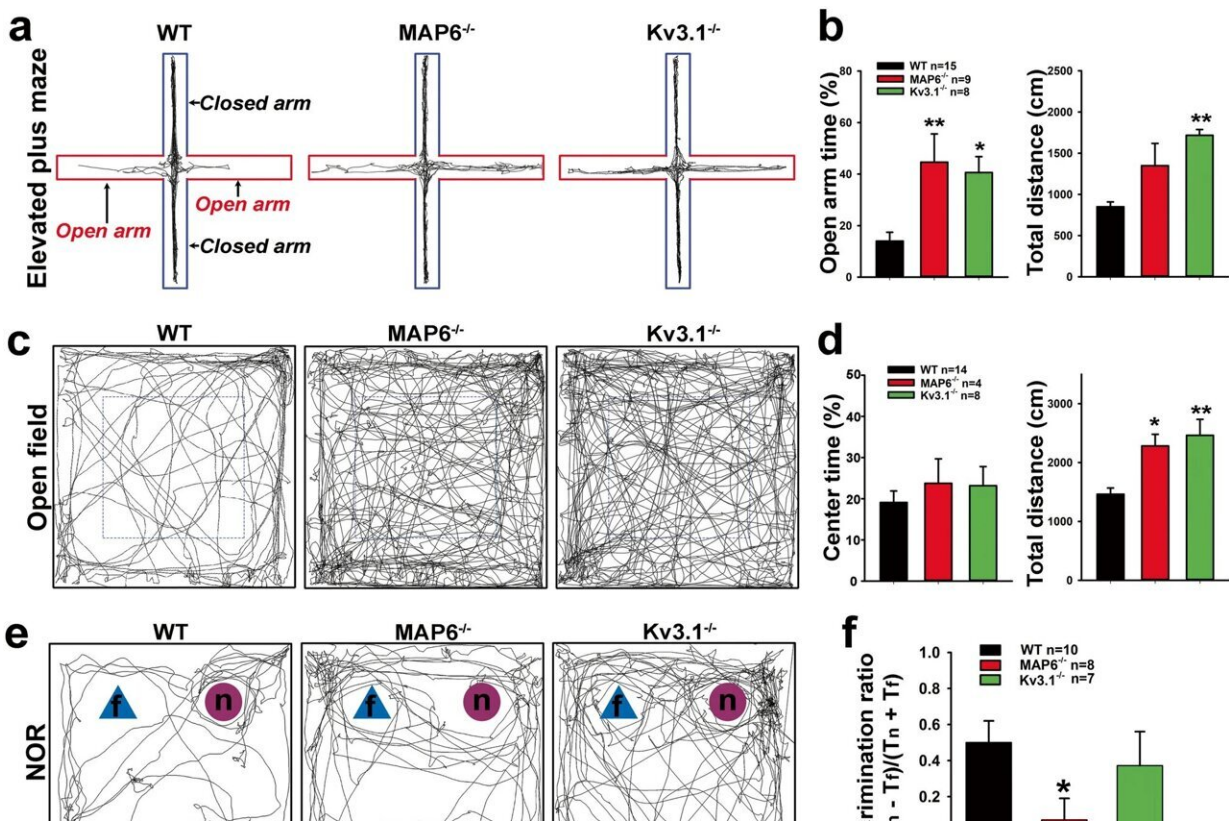


Unexpected link found between 2 schizophrenia risk proteins

October 26 2023, by Emily Caldwell



Behavioral alterations in MAP6^{-/-} and Kv3.1^{-/-} mice. Adult (3–6 months old) WT B6 (black bars), MAP6^{-/-} (red bars), and Kv3.1^{-/-} (green bars) mice were used in a series of behavioral assays. Each group contained approximately half male and half female mice. **a** Example traces in the elevated plus maze (EPM) with open arms indicated in red and closed arms in dark blue. **b** Summaries of open arm time ($100 \times T_{\text{Open}} / (T_{\text{Open}} + T_{\text{Closed}})$; WT control, MAP6^{-/-} $p = 0.001$, Kv3.1^{-/-} $p = 0.029$) (left) and total travel distance (cm; WT control, MAP6^{-/-} $p = 0.088$, Kv3.1^{-/-} $p = 0.003$) (right) in EPM. **c** Example traces in the open field test

with blue dashed lines to indicate the center. **d** Summaries of the center time percentage ($100 \times T_{\text{Center}}/T_{\text{Total}}$; Overall $p = 0.595$)(left) and the total travel distance (cm; WT control, MAP6^{-/-} $p = 0.045$, Kv3.1^{-/-} $p = 0.002$)(right) in the open field test. **e** Example traces in the novel object recognition (NOR) test with the blue triangles as the familiar objects (**f**) and the red circles as the novel objects (n). **f** Summary of the discrimination ratio, $(T_n - T_f)/(T_n + T_f)$. WT control, MAP6^{-/-} $p = 0.044$, Kv3.1^{-/-} $p = 0.096$. **g** Summary of the rotarod test. In trial #3, MAP6^{-/-} $p = 0.041$. In trial #4, MAP6^{-/-} $p = 0.001$. **h** Summary of the balance beam test. **i** Summary of spontaneous alternation in the Y maze test (overall $p = 0.801$). Each result is provided as mean \pm SEM. Mouse numbers are provided in the figure. One-Way ANOVA followed by Dunnett's test: *, p

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